

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6456 (1972): Double Row Radial Ball Bearings [PGD 13: Bearing]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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AMENDMENT NO. 1 SEPTEMBER 1999
TO
IS 6456 : 1972 SPECIFICATION FOR DOUBLE ROW
RADIAL BALL BEARINGS

(*Page 1, clause 1*) — Insert the following new clause after 1 and renumber the subsequent clauses:

'2 REFERENCES

'The following Indian Standards contain provisions which through reference in this text, constitute provision of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS /ISO No.</i>	<i>Title</i>
IS 2398 : 1967	Identification code for rolling bearings
IS 2399 : 1988/ ISO 5593 : 1984	Rolling bearings — Vocabulary (<i>first revision</i>)
IS 5669 : 1987/ ISO 15 : 1981	General plan of boundary dimensions for radial rolling bearings (<i>first revision</i>)
IS 5692 : 1988	Tolerance for radial rolling bearings (<i>first revision</i>)
IS 5935 : 1992	Radial internal clearance in unloaded radial rolling bearings (<i>first revision</i>)
IS 6453 : 1984	Technical supply conditions for rolling bearings (<i>first revision</i>)'

[*Page 1, clause 2 (renumbered 3)*] — Substitute 'IS 2399' for 'IS 2399 : 1964 Glossary of terms relating to rolling bearings'.

[*Page 1, clause 3.1 (renumbered 4.1)*] — Substitute 'IS 2398' for 'IS 2398 : 1967 Identification code for rolling bearings'.

[*Page 1, clause 4 (renumbered 5)*] — Substitute 'IS 2398' for 'IS 2398 : 1967'.

Amend No. 1 to IS 6456 : 1972

[*Page 1, clause 5.1 (renumbered 6.1)*] — Substitute 'IS 5669' for 'IS 5669 : 1970 General plan of boundary dimensions for radial rolling bearings'.

[*Page 1, clause 5.2 (renumbered 6.2)*] — Substitute 'IS 5692' for 'IS 5692 : 1970 Tolerances for radial rolling bearings'.

[*Page 1, clause 5.3 (renumbered 6.3)*] — Substitute 'IS 5935' for 'IS 5935 : 1970 Radial internal clearances in unloaded radial rolling bearings'.

Page 1, clause 6 (renumbered 7)] — Substitute 'IS 6453' for 'IS 6453 : 1972 Technical supply conditions for rolling bearings'.

(LM 12)

Indian Standard
SPECIFICATION FOR
DOUBLE ROW RADIAL BALL BEARINGS

1. **Scope** — Requirements for double row radial ball bearings.
2. **Terminology** — As given in IS : 2399-1964 'Glossary of terms relating to rolling bearings'.
3. **Types**
- a) Radial contact,
 - b) Angular contact, and
 - c) Self-aligning.
- 3.1 Variations in the above types shall conform to IS : 2398-1967 'Identification code for rolling bearings'.
4. **Symbols** — Conforming to IS : 2398-1967.
5. **Dimensions and Tolerances**
- 5.1 *Boundary Dimensions* — Dimensions shall conform to dimension series 39, 10, 30, 02, 12, 22, 32, 03, 13, 23, 33 and 04 of IS : 5669-1970 'General plan of boundary dimensions for radial rolling bearings'.
- 5.2 *Tolerances* — Tolerances on the boundary dimensions shall conform to IS : 5692-1970 'Tolerances for radial rolling bearings'.
- 5.3 *Radial Clearances* — Shall conform to IS : 5935-1970 'Radial internal clearances in unloaded radial rolling bearings'.
6. **General Requirements** — Other requirements for the bearings shall conform to IS : 6453-1972 'Technical supply conditions for rolling bearings'.
7. **Designation** — Typical examples:

SI No.	Order of Designating Symbols Description	Bore Dia of Bearing	Type*	Width and Outside Dia Series (Dimension Series)	Supplementary Code (if Required for any Modification in Design)†	Number of This Standard	Tolerance Class‡	Radial Clearance Group§	Complete Designation
		000	AAA	00	AAAA	IS : 6456	P0	C0	
i)	Radial ball-bearing, bore dia 50 mm, double row, self-aligning; raceway of outer ring spherical; dimension series 02; tolerance class normal; radial clearance group normal	50	BS	02	—	IS : 6456	—	—	50 BS 02 IS : 6456
ii)	Same bearing as SI No. (i) but with tolerance class 5	50	BS	02	—	IS : 6456	P5	—	50 BS 02 IS : 6456 P5
iii)	Same bearing as SI No. (i) but with radial clearance group 3	50	BS	02	—	IS : 6456	—	C3	50 BS 02 IS : 6456 C3
iv)	Same bearing as SI No. (i) but with tolerance class 5 and radial clearance group 3	50	BS	02	—	IS : 6456	P5	C3	50 BS 02 IS : 6456 P5 C3
v)	Bearing of SI No. (iv) having a cage in steel sheet or stripform, centred by rolling elements and having a tapered bore 1 : 12	50	BS	02	JXXK	IS : 6456	P5	C3	50 BS 02 JXXK IS : 6456 P5 C3

*In accordance with 3.3.1 of IS : 2398-1967.
†In accordance with 3.4 of IS : 2398-1967.
‡In accordance with 5.2.
§In accordance with 5.3.

Bearings Sectional Committee, EDC 39; Ball and Cylindrical Roller Bearings Subcommittee, EDC 39 : 1 [Ref : Doc : EDC 39 (1967)]

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